

According to article 31 and Annex II of the EU REACH Regulation

Version: 4.0 Revision Date: 08.10.2012

Superseded date: 20.01.2010

# MOLYKOTE(R) 1000 SPRAY

#### 1. IDENTIFICATION OF THE SUBSTANCE/PREPARATION AND OF THE COMPANY

1.1 Product name : MOLYKOTE(R) 1000 SPRAY

1.2 Identified uses Lubricants and additives

: None known. Uses advised against

Dow Corning Europe S.A. 1.3 Company

rue Jules Bordet - Parc Industriel - Zone C

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E-mail address (Safety

Data Sheet)

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1.4 Emergency Phone

Number

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# 2. HAZARDS IDENTIFICATION

#### 2.1 Classification of the substance or mixture

#### According to EU Directives 67/548/EEC or 1999/45/EC:

R12 Extremely flammable.

R52/53 Harmful to aquatic organisms, may cause long-term adverse effects in the aquatic environment.

R67 Vapours may cause drowsiness and dizziness.

#### 2.2 Label elements

#### Labelling according to EEC Directive

: F+ Extremely flammable. **Symbols** 

**R-phrases** R12 Extremely flammable.

R52/53 Harmful to aquatic organisms, may cause long-term adverse effects in the aquatic

R67 Vapours may cause drowsiness and dizziness.

S-phrases S2 Keep out of the reach of children.

S16 Keep away from sources of ignition - no smoking.

S23(S) Do not breathe spray.



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S24/25 Avoid contact with skin and eyes.

S41 In case of fire and/or explosion do not breathe fumes.

S61 Avoid release to the environment. Refer to special instructions/Safety data sheets.

Do not spray on a naked flame or any incandescent material.

Pressurized container: protect from sunlight and do not expose to temperatures exceeding 50°C. Do not pierce or burn, even after use.



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. COMPOSITION / INFO	ORMATION C	ON INGREDIE	ENTS			
Chemical characterizati	on: Hydrocart	oon aerosol proj	pellant			
According to EU Directi	ives 67/548/EE	CC or 1999/45/1	EC:			
Name		EINECS/ ELINCS	REACH Registration Number	Conc. (% w/w)	Classification	
Butane	106-97-8	203-448-7	-	53.0	F+	R12
Naphtha (petroleum), hydrotreated heavy	64742-48-9	265-150-3	-	15.0	Xn	R10 R65 R66 R67 R52/53
Distillates (petroleum), solvent-dewaxed heavy paraffinic	64742-65-0	265-169-7	-	9.5	Substance with exposure limit	a Community workplace
Distillates (petroleum), solvent dewaxed light paraffinic; baseoil - unspecified	64742-56-9	265-159-2	-	9.5	Substance with exposure limit	a Community workplace
Calcium fluoride	7789-75-5	232-188-7	-	5.0	Substance with exposure limit	a Community workplace
Graphite	7782-42-5	231-955-3	-	2.5		a Community workplace
Copper	7440-50-8	231-159-6	-	1.8	N	R50
Polybutene	9003-29-6	Exempt or not available	-	1.4	Substance with exposure limit	a Community workplace
Zinc	7440-66-6	231-175-3	-	0.9	F N	R15 R17 R50/53
According to Regulation	n (EC) No. 127	2/2008:				
Name	CAS-No.	EINECS/ ELINCS	REACH Registration	Conc. (% w/w)	Classification	
Butane	106-97-8	<b>No.</b> 203-448-7	Number -	53.0		ategory 1 - H220 re: Liquefied gas - H280
Naphtha (petroleum), hydrotreated heavy	64742-48-9	265-150-3	-	15.0	Specific target orga (Inhalation - vapou - H336	Category 3 - H226 In toxicity - single exposure r): Category 3 (narcotic effects) Category 1 - H304



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					Chronic aquatic hazard: Category 3 - H412 EUH066
Distillates (petroleum), solvent-dewaxed heavy paraffinic	64742-65-0	265-169-7	-	9.5	Substance with a Community workplace exposure limit
Distillates (petroleum), solvent dewaxed light paraffinic; baseoil - unspecified	64742-56-9	265-159-2	-	9.5	Substance with a Community workplace exposure limit
Calcium fluoride	7789-75-5	232-188-7	-	5.0	Substance with a Community workplace exposure limit
Graphite	7782-42-5	231-955-3	-	2.5	Substance with a Community workplace exposure limit
Copper	7440-50-8	231-159-6	-	1.8	
					Acute aquatic hazard: Category 1 - H400
Polybutene	9003-29-6	Exempt or not available	-	1.4	Substance with a Community workplace exposure limit
Zinc	7440-66-6	231-175-3	-	0.9	Pyrophoric solid: Category 1 - H250 Substances and mixtures, which in contact with water, emit flammable gases: Category 1 - H260
					Acute aquatic hazard: Category 1 - H400 Chronic aquatic hazard: Category 1 - H410

For the full text of the R-phrases mentioned in this Section, see Section 16.

For the full text of the H-Statements mentioned in this Section, see Section 16.

CLP classifications are based on all current available data including from known international organizations. These classifications are subject to revision as more information becomes available.

## 4. FIRST AID MEASURES

### 4.1 Description of First Aid Measures:

On contact with eyes Flush with water.

On skin contact Flush with water.

If inhaled Remove to fresh air. Obtain medical attention immediately.

On ingestion Obtain medical attention.

4.2 Most important

and delayed

symptoms/effects, acute

Vapours may cause drowsiness and dizziness.

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#### 5. FIRE-FIGHTING MEASURES

5.1 Suitable extinguishing media

: On large fires use dry chemical, foam or water spray (fog). On small fires use carbon dioxide (CO2), dry chemical or water spray. Water can be used to cool fire exposed

containers

Unsuitable extinguishing

media

None known.

5.2 Hazards during fire

fighting

Pressurised container capable of exploding if heated. Toxic vapours are evolved.

**Hazardous Combustion** 

**Products** 

Thermal breakdown of this product during fire or very high heat conditions may evolve the following decomposition products: Silica. Carbon oxides and traces of incompletely

burned carbon compounds. Formaldehyde. Nitrogen products. Sulphur products. Toxic

vapours of fluorinated compounds.

5.3 Special protective equipment/procedures

A self-contained respirator and protective clothing should be worn. Determine the need to evacuate or isolate the area according to your local emergency plan. Use water spray to

keep fire exposed containers cool.

### 6. ACCIDENTAL RELEASE MEASURES

6.1 Personal precautions, protective equipment and emergency procedures

A self-contained respirator and protective clothing should be worn. Determine the need to evacuate or isolate the area according to your local emergency plan. Eliminate all possible sources of ignition.

**6.2 Environmental** precautions

Do not empty into drains. Prevent from spreading or entering into drains, ditches or rivers by using sand, earth or other appropriate barriers.

6.3 Methods and materials for : containment and cleaning up

Determine the need to evacuate or isolate the area according to your local emergency plan. Eliminate all possible sources of ignition.

# 7. HANDLING AND STORAGE

**7.1** Advice on safe handling : General ventilation is required. Local ventilation is required. Do not breathe spray or

mist. Do not spray on a naked flame or any incandescent material. Keep away from sources of ignition - no smoking. Do not breathe vapour. Avoid skin and eye contact. Do

not empty into drains.

**7.2** Advice on storage : Pressurized container: protect from sunlight and do not expose to temperatures exceeding

50°C. Do not pierce or burn, even after use. Store in a flameproof, well ventilated area.

Storage temperature: maximum 50 °C

**7.3 Specific uses** : Refer to technical data sheet available on request.



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lame	CAS-No.	Exposure Limits
Butane	106-97-8	600 ppm TWA 750 ppm STEL 1,450 mg/m3 TWA 1,810 mg/m3 STEL
Naphtha (petroleum), hydrotreated heavy	64742-48-9	10 mg/m3 STEL Oil Mist,mineral 5 mg/m3 TWA Oil Mist,mineral
Distillates (petroleum), solvent-dewaxed heavy paraffinic	64742-65-0	10 mg/m3 STEL Oil Mist,mineral 5 mg/m3 TWA Oil Mist,mineral
Distillates (petroleum), solvent dewaxed light paraffinic; baseoil - unspecified	64742-56-9	10 mg/m3 STEL Oil Mist,mineral 5 mg/m3 TWA Oil Mist,mineral
Calcium fluoride	7789-75-5	2.5 mg/m3 TWA as F "inorganic"
Graphite	7782-42-5	10 mg/m3 TWA Inhalable dust 4 mg/m3 STEL Respirable dust
Copper	7440-50-8	1 mg/m3 TWA as Cu Inhalable dust 2 mg/m3 STEL as Cu Inhalable dust 0.2 mg/m3 TWA as Cu Fume
Polybutene	9003-29-6	10 mg/m3 STEL Oil Mist,mineral 5 mg/m3 TWA Oil Mist,mineral
Zinc	7440-66-6	4 mg/m3 TWA Respirable dust 10 mg/m3 TWA Inhalable dust



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Personal protection equipment

**Respiratory protection** A suitable respirator must be worn if the product is used in any circumstances where an

aerosol or mist may be generated, such as during spraying or similar activities.

Suitable respiratory protection should be worn if the product is used in large quantities, confined spaces or in other circumstances where the OEL may be approached or

exceeded.

Depending on the working conditions, wear a respiratory mask with filter(s) AXP or use

a self-contained respirator.

The choice of a filter type depends on the amount and type of chemical being handled in the workplace. Regarding filter characteristics, contact your respiratory protection

supplier.

Chemical protective gloves should be worn: Nitrile rubber. 4H(TM). Polyvinyl Hand protection

alcohol(PVA). Viton(TM). Regarding glove's breakthrough time, contact your chemical

protective glove supplier.

Eye/face protection Safety goggles should be worn.

Skin protection Wear impervious overalls in circumstances where significant skin contact can occur.

Hygiene measures Exercise good industrial hygiene practice. Wash after handling, especially before eating,

drinking or smoking.

**Additional information** For further information regarding the use of silicones / organic oils in consumer aerosol

> applications, please refer to the guidance document regarding the use of these types of materials in consumer aerosol applications that has been developed by the silicone industry (www.SEHSC.com) or contact the Dow Corning customer service group. For further information regarding the use of silicones / organic oils in consumer aerosol applications, please refer to the guidance document regarding the use of these types of materials in consumer aerosol applications that has been developed by the silicone industry (www.SEHSC.com) or contact the Dow Corning customer service group.

**Environmental exposure** 

controls

Refer to section 6 and 12.

#### 9. PHYSICAL AND CHEMICAL PROPERTIES

**Form** Aerosol

Colour Brown

Odour Solvent

**Specific Gravity** 0.67

The above information is not intended for use in preparing product specifications. Contact Dow Corning before writing specifications.

#### 10. STABILITY AND REACTIVITY

10.1 Reactivity : None known.

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**10.2 Stability** : Stable under normal usage conditions.

10.3 Possibility of hazardous

reactions

None known.

**10.4 Conditions to avoid** : Eliminate all possible sources of ignition.

**10.5 Materials to avoid** : Can react with strong oxidising agents.

10.6 Hazardous decomposition

products

Thermal breakdown of this product during fire or very high heat conditions may evolve the following decomposition products: Silica. Carbon oxides and traces of incompletely

burned carbon compounds. Formaldehyde. Nitrogen products. Sulphur products. Toxic

vapours of fluorinated compounds.

#### 11. TOXICOLOGICAL INFORMATION

#### **Acute toxicity:**

On contact with eyes : Slightly irritating.

On skin contact : Slightly irritating.

If inhaled : Single exposure may cause transient drowsiness and dizziness. May cause pulmonary

oedema and pneumonitis.

On ingestion : Small amounts transferred to the mouth by fingers during use should not injure.

**Chronic toxicity:** 

On skin contact : Can irritate on prolonged or repeated skin contact.

If inhaled : May cause pulmonary oedema and pneumonitis.

On ingestion : Small amounts transferred to the mouth by fingers during use should not injure.

Toxicokinetics, metabolism

and distribution

No specific information is available.

Other Health Hazard

**Information** 

Product may emit formaldehyde vapour at temperatures above 150°C in the presence of air. Formaldehyde vapour is a suspected carcinogen, toxic by inhalation and irritating to

eyes and the respiratory system. Exposure limits should be strictly respected.

Based on product test data.

Based on test data from similar products.



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#### 12. ECOLOGICAL INFORMATION

#### 12.1 Ecotoxicity effects

Harmful to aquatic organisms and may cause long-term adverse effects in the aquatic environment.

#### 12.2 Persistence and degradability

Organic solvents may evaporate into the atmosphere, where they degrade. The mineral oils in the product are biodegradable.

#### 12.3 Bioaccumulation

Low potential to bioaccumulate.

#### 12.4 Release to waters / Mobility in soil

#### Fate and effects in waste water treatment plants:

May cause adverse effects on bacteria. If used as intended this product is not expected to reach waste water treatment plants.

## 13. DISPOSAL CONSIDERATIONS

Product and packaging

disposal

Dispose of in accordance with local regulations. According to the European Waste Catalogue, Waste Codes are not product specific, but application specific. Waste codes should be assigned by the user, preferably in discussion with the waste disposal

authorities.

#### 14. TRANSPORT INFORMATION

#### Road / Rail (ADR/RID)

UN 1950 UN No.

**Proper Shipping Name AEROSOLS** 

Class 2

Labels 2.1

Sea transport (IMDG)

UN No. : UN 1950

**Proper Shipping Name AEROSOLS** 

Class 2.1

**Emergency Schedule** : F-D



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(EmS) S-U

Air transport (IATA)

UN No. : UN 1950

**Proper Shipping Name** : Aerosols, flammable

**Class** : 2.1

**Labels** : Flammable Gas

Apply Gross Wt Supplemental Label to Outer Package if shipping Limited Quantity

### 15. REGULATORY INFORMATION

15.1 Safety, health and environmental regulations/legislation specific for the substance or mixture

**Status** 

**EINECS** : All ingredients listed, exempt or notified (ELINCS).

TSCA : All chemical substances in this material are included on or exempted from listing on the

TSCA Inventory of Chemical Substances.

AICS : All ingredients listed, exempt or notified.

**IECSC** : All ingredients listed or exempt.

**KECL** : All ingredients listed, exempt or notified.

PICCS : All ingredients listed, exempt or notified.



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#### 16. OTHER INFORMATION

This product safety data sheet was prepared in compliance with article 31 and Annex II of the EU REACH Regulation as well as its relevant amendements, on the approximation of laws, regulations and administrative provisions relative to the classification, packaging and labelling of dangerous substances and preparations.

It is the responsibility of persons in receipt of this Product Safety Data Sheet to ensure that the information contained herein is properly read and understood by all people who may use, handle, dispose or in any way come in contact with the product. If the recipient subsequently produces a formulation containing the Dow Corning product, it is the recipient's sole responsibility to ensure the transfer of all relevant information from the Dow Corning Product Safety Data Sheet to their own Product Safety Data Sheet in compliance with article 31 and Annex II of the EU REACH Regulation.

All information and instructions provided in this Safety Data Sheet (SDS) are based on the current state of scientific and technical knowledge at the date indicated on the present SDS. Dow Corning shall not be held responsible for any defect in the product covered by this SDS, should the existence of such defect not be detectable considering the current state of scientific and technical knowledge.

As stated above, this Safety Data Sheet has been prepared in compliance with applicable European law. If you purchase this material outside Europe, where compliance laws may differ, you should receive from your local Dow Corning supplier a SDS applicable to the country in which the product is sold and intended to be used. Please note that the appearance and content of the SDS may vary - even for the same product - between different countries, reflecting the different compliance requirements. Should you have any question, please refer to your local Dow Corning supplier.

Source of information: Internal data and publically available information

R10 Flammable., R12 Extremely flammable., R15 Contact with water liberates extremely flammable gases., R17 Spontaneously flammable in air., R50 Very toxic to aquatic organisms., R50/53 Very toxic to aquatic organisms, may cause long-term adverse effects in the aquatic environment., R52/53 Harmful to aquatic organisms, may cause long-term adverse effects in the aquatic environment., R65 Harmful: May cause lung damage if swallowed., R66 Repeated exposure may cause skin dryness or cracking., R67 Vapours may cause drowsiness and dizziness.

H220 Extremely flammable gas., H226 Flammable liquid and vapour., H250 Catches fire spontaneously if exposed to air., H260 In contact with water releases flammable gases which may ignite spontaneously., H280 Contains gas under pressure; may explode if heated., H304 May be fatal if swallowed and enters airways., H336 May cause drowsiness or dizziness., H400 Very toxic to aquatic life., H410 Very toxic to aquatic life with long lasting effects., H412 Harmful to aquatic life with long lasting effects.